Ø

## SEQUENCE LISTING

<110> Mack, David Gish, Kurt Wilson, Keith

<120> NOVEL METHODS OF DIAGNOSING CANCER, COMPOSITIONS, AND METHODS OF SCREENING FOR CANCER MODULATORS

SCREEN							ING	CANC	EK,	COMP	J511.	TONS	, AIN	D METHODS	OF
<130>	A-69	192-1	1/DJ	3/JJI	O/AM	S									
<150> <151>	US 0 2000	•	-	1											
<160>	5														
<170>	Pate	ntIn	ver	sion	3.0										
<210><211><212><213>	1 3794 DNA Homo	sap:	iens												
<220> <221> <222>	CDS (38)	(26	535)												
<400> ccaagt	1 tcta (	cctca	atgti	t gg	gagga	atcti	c ga	tagci				_		ggc Gly	55
tcc ct															103
cct tc Pro Se															151
aca aa Thr As:		_							_						199
ctc tt Leu Ph															247
ttc cc. Phe Pr															295
aaa at Lys Il															343
gtc tac Val Ty							Leu								391

439

ttt att att ctg atg cct ctg gtg ggg tat ttc ttt tgt atg tgt cgt

Phe	Ile 120	Ile	Leu	Met	Pro	Leu 125	Val	Gly	Tyr	Phe	Phe 130	Cys	Met	Cys	Arg	
_	_			_			_	_	cac His	_		_	_	_		487
			_			_		_	atc Ile 160		-	_			-	535
									ggt Gly							583
_	_						_		aaa Lys	_	_	_	_			631
_	_	_	_			_		_	act Thr							679
	_	_	_					_	gac Asp	_				_	_	727
									gga Gly 240							775
									att Ile							823
	_						_		aac Asn	_		_		_	_	871
_	_				_		Gln		agc Ser	_	_	_		_		919
									gac Asp							967
		_	_		_		_		aga Arg 320	_			_	_	_	1015
	_			_	_		_		cca Pro			_	_	_		1063
									gat Asp							1111
_							_		cct Pro	_	_	_		_		1159

360 365 370

	_		_	_	_					gtc Val 385	_					1207
	-									cct Pro						1255
	_									gaa Glu						1303
										tac Tyr						1351
_	-		•		-	_				gtg Val					_	1399
										agg Arg 465						1447
										gtc Val						1495
-			-				-			ttg Leu						1543
			_			_			_	aaa Lys	_		_	_		1591
	_	_	_	_				_	_	gat Asp						1639
	_	_		_						aag Lys 545						1687
	-	_				_		-		agt Ser	-	_				1735
_								_	_	aac Asn	_				_	1783
										agc Ser						1831
_	_	_	_	_						ctg Leu	_		_	-		1879

こうことのから成分の成分のでは、「別ののは、「大きないない」では、「大きないないできる」となっている。 ないまましょう ないない こうしん

_				_	_		_	gct Ala	_			_		_		192	27
	_	_		_	_	_		ggt Gly				_				197	15
				_		_		gaa Glu 655	_		_		_	_		202	23
			_				_	aaa Lys	-	_	-					207	11
			_		_	_		cct Pro		_			_	_		211	.9
			_	_	_			caa Gln						_	_	216	57
	_	_					_	tct Ser	_	_		_	_			221	.5
							-	att Ile 735			_		-	_		226	3
	_							gaa Glu			_	_				231	.1
			_				_	tcg Ser	_				_		_	235	;9
								ctg Leu								240	17
								gga Gly								245	5
								ctg Leu 815								250	3
								gtt Val								255	1
_	_							cat His		-		_				259	9

	o Val Met Ti	ca agc cca t hr Ser Pro S 60		tga tagetg	atgt	2645
tgaaactgct	tgagcatcag	gatactcaaa	gtggaaagga	tcacagattt	ttggtagttt	2705
ctgggtctac	aaggactttc	caaatccagg	agcaacgcca	gtggcaacgt	agtgactcag	2765
gcgggcacca	aggcaacggc	accattggtc	tctgggtagt	gctttaagaa	tgaacacaat	2825
cacgttatag	tccatggtcc	atcactattc	aaggatgact	ccctcccttc	ctgtctattt	2885
ttgtttttta	cttttttaca	ctgagtttct	atttagacac	tacaacatat	ggggtgtttg	2945
ttcccattgg	atgcatttct	atcaaaactc	tatcaaatgt	gatggctaga	ttctaacata	3005
ttgccatgtg	tggagtgtgc	tgaacacaca	ccagtttaca	ggaaagatgc	attttgtgta	3065
cagtaaacgg	tgtatatacc	ttttgttacc	acagagtttt	ttaaacaaat	gagtattata	3125
ggactttctt	ctaaatgagc	taaataagtc	accattgact	tcttggtgct	gttgaaaata	3185
atccattttc	actaaaagtg	tgtgaaacct	acagcatatt	cttcacgcag	agattttcat	3245
ctattatact	ttatcaaaga	ttggccatgt	tccacttgga	aatggcatgc	aaaagccatc	3305
atagagaaac	ctgcgtaact	ccatctgaca	aattcaaaag	agagagagag	atcttgagag	3365
agaaatgctg	ttcgttcaaa	agtggagttg	ttttaacaga	tgccaattac	ggtgtacagt	3425
ttaacagagt	tttctgttgc	attaggataa	acattaattg	gagtgcagct	aacatgagta	3485
tcatcagact	agtatcaagt	gttctaaaat	gaaatatgag	aagatcctgt	cacaattctt	3545
agatctggtg	tccagcatgg	atgaaacctt	tgagtttggt	ccctaaattt	gcatgaaagc	3605
acaaggtaaa	tattcatttg	cttcaggagt	ttcatgttgg	atctgtcatt	atcaaaagtg	3665
atcagcaatg	aagaactggt	cggacaaaat	ttaacgttga	tgtaatggaa	ttccagatgt	3725
aggcattccc	cccaggtctt	ttcatgtgca	gattgcagtt	ctgattcatt	tgaataaaaa	3785
ggaacttgg						3794

<sup>&</sup>lt;210> 2

Met Ala Leu Val Leu Gly Ser Leu Leu Leu Gly Leu Cys Gly Asn 1 5 10 15

Ser Phe Ser Gly Gly Gln Pro Ser Ser Thr Asp Ala Pro Lys Ala Trp 20 25 30

Asn Tyr Glu Leu Pro Ala Thr Asn Tyr Glu Thr Gln Asp Ser His Lys

<sup>&</sup>lt;211> 865

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 2

r.

Ala	Gly	Pro	Ile	Gly	Ile	Leu	Phe	Glu	Leu	Val	His	Ile	Phe	Leu	Tyr
	50					55					60				

Val Val Gln Pro Arg Asp Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu 65 70 75 80

Gln Lys Ala Tyr Glu Ser Lys Ile Asp Tyr Asp Lys Pro Glu Thr Val 85 90 95

Ile Leu Gly Leu Lys Ile Val Tyr Tyr Glu Ala Gly Ile Ile Leu Cys 100 105 110

Cys Val Leu Gly Leu Leu Phe Ile Ile Leu Met Pro Leu Val Gly Tyr 115 120 125

Phe Phe Cys Met Cys Arg Cys Cys Asn Lys Cys Gly Glu Met His 130 135 140

Gln Arg Gln Lys Glu Asn Gly Pro Phe Leu Arg Lys Cys Phe Ala Ile 145 150 155 160

Ser Leu Leu Val Ile Cys Ile Ile Ile Ser Ile Gly Ile Phe Tyr Gly 165 170 175

Phe Val Ala Asn His Gln Val Arg Thr Arg Ile Lys Arg Ser Arg Lys
180 185 190

Leu Ala Asp Ser Asn Phe Lys Asp Leu Arg Thr Leu Leu Asn Glu Thr
195 200 205

Pro Glu Gln Ile Lys Tyr Ile Leu Ala Gln Tyr Asn Thr Thr Lys Asp 210 215 220

Lys Ala Phe Thr Asp Leu Asn Ser Ile Asn Ser Val Leu Gly Gly 225 230 235 240

Ile Leu Asp Arg Leu Arg Pro Asn Ile Ile Pro Val Leu Asp Glu Ile 245 250 255

Lys Ser Met Ala Thr Ala Ile Lys Glu Thr Lys Glu Ala Leu Glu Asn 260 265 270

Met Asn Ser Thr Leu Lys Ser Leu His Gln Gln Ser Thr Gln Leu Ser 275 280 285

Ser Ser Leu Thr Ser Val Lys Thr Ser Leu Arg Ser Ser Leu Asn Asp 290 295 300

Pro Leu Cys Leu Val His Pro Ser Ser Glu Thr Cys Asn Ser Ile Arg 305 310 315 320

Leu Ser Leu Ser Gln Leu Asn Ser Asn Pro Glu Leu Arg Gln Leu Pro 325 330 335

Pro Val Asp Ala Glu Leu Asp Asn Val Asn Asn Val Leu Arg Thr Asp 340 345 350

Leu Asp Gly Leu Val Gln Gln Gly Tyr Gln Ser Leu Asn Asp Ile Pro 355 360 365

Asp Arg Val Gln Arg Gln Thr Thr Val Val Ala Gly Ile Lys Arg 370 375 380

Val Leu Asn Ser Ile Gly Ser Asp Ile Asp Asn Val Thr Gln Arg Leu 385 390 395 400

Pro Ile Gln Asp Ile Leu Ser Ala Phe Ser Val Tyr Val Asn Asn Thr 405 410 415

Glu Ser Tyr Ile His Arg Asn Leu Pro Thr Leu Glu Glu Tyr Asp Ser 420 425 430

Tyr Trp Trp Leu Gly Gly Leu Val Ile Cys Ser Leu Leu Thr Leu Ile 435 440 445

Val Ile Phe Tyr Tyr Leu Gly Leu Cys Gly Val Cys Gly Tyr Asp 450 455

Arg His Ala Thr Pro Thr Thr Arg Gly Cys Val Ser Asn Thr Gly Gly 465 470 475 480

Val Phe Leu Met Val Gly Val Gly Leu Ser Phe Leu Phe Cys Trp Ile 485 490 495

Leu Met Ile Ile Val Val Leu Thr Phe Val Phe Gly Ala Asn Val Glu 500 505 510

Lys Leu Ile Cys Glu Pro Tyr Thr Ser Lys Glu Leu Phe Arg Val Leu 515 520 525

سنة المعاشقة الماسية الماسية

Asp Thr Pro Tyr Leu Leu Asn Glu Asp Trp Glu Tyr Tyr Leu Ser Gly 530 540

Lys Leu Phe Asn Lys Ser Lys Met Lys Leu Thr Phe Glu Gln Val Tyr 545 550 555 560

Ser Asp Cys Lys Lys Asn Arg Gly Thr Tyr Gly Thr Leu His Leu Gln 565 570 575

Asn Ser Phe Asn Ile Ser Glu His Leu Asn Ile Asn Glu His Thr Gly 580 585 590

Ser Ile Ser Ser Glu Leu Glu Ser Leu Lys Val Asn Leu Asn Ile Phe 595 600 605

Leu Leu Gly Ala Ala Gly Arg Lys Asn Leu Gln Asp Phe Ala Ala Cys 610 615 620

Gly Ile Asp Arg Met Asn Tyr Asp Ser Tyr Leu Ala Gln Thr Gly Lys 625 630 635 640

Ser Pro Ala Gly Val Asn Leu Leu Ser Phe Ala Tyr Asp Leu Glu Ala 645 650 655

Lys Ala Asn Ser Leu Pro Pro Gly Asn Leu Arg Asn Ser Leu Lys Arg 660 665 670

Asp Ala Gln Thr Ile Lys Thr Ile His Gln Gln Arg Val Leu Pro Ile 675 680 685

Glu Gln Ser Leu Ser Thr Leu Tyr Gln Ser Val Lys Ile Leu Gln Arg 690 695 700

Thr Gly Asn Gly Leu Leu Glu Arg Val Thr Arg Ile Leu Ala Ser Leu 705 710 715 720

Asp Phe Ala Gln Asn Phe Ile Thr Asn Asn Thr Ser Ser Val Ile Ile 725 730 735

Glu Glu Thr Lys Lys Tyr Gly Arg Thr Ile Ile Gly Tyr Phe Glu His
740 745 750

Tyr Leu Gln Trp Ile Glu Phe Ser Ile Ser Glu Lys Val Ala Ser Cys 755 760 765

	770				•	775					780					
Ser 785	Tyr	Ile	Ile	Asp	Pro 790	Leu	Asn	Leu	Phe	Trp 795	Phe	Gly	Ile	Gly	Lys 800	
Ala	Thr	Val	Phe	Leu 805	Leu	Pro	Ala	Leu	Ile 810	Phe	Ala	Val	Lys	Leu 815	Ala	
Lys	Tyr	Tyr	Arg 820	Arg	Met	Asp	Ser	Glu 825	Asp	Val	Tyr	Asp	Asp 830	Val	Glu	
Thr	Ile	Pro 835	Met	Lys	Asn	Met	Glu 840	Asn	Gly	Asn	Asn	Gly 845	Tyr	His	Lys	
Asp	His 850	Val	Tyr	Gly	Ile	His 855	Asn	Pro	Val	Met	Thr 860	Ser	Pro	Ser	Gln	
His 865																
<210 <211 <212 <213	L> 3 2> I	3 3764 DNA Homo	sap	iens												
<220 <221 <222	L> (	CDS (38)	(26	505)												
<400 ccaa		3 cta d	ectca	atgtt	st gg	gagga	atctt	get	agct						ggc ggc	55
_	_ ~							999 Gly 15	_	_		_				103
								gct Ala								151
								cat His								199
								ctc Leu								247
		_	_		_	_		ttc Phe		_	_	_		_		295

Lys Pro Val Ala Thr Ala Leu Asp Thr Ala Val Asp Val Phe Leu Cys

		_		_		_			_	_				cta Leu	_	343
_		_		_					_	_		_		Gly aaa		391
		_	_	_	_	_	_			_			_	atg Met		439
_	_	_	_	_					_			_		gca Ala		487
														tat Tyr 165		535
		_			_	_	_						_	cgg Arg		583
														gaa Glu		631
														aag Lys		679
_				_	_		_							ggc Gly		727
		-	_	_	_						_		_	gag Glu 245		775
			_	_	_	_	_		_				_	gag Glu		823
_		_		_	_	_	_				_		_	ctt Leu	_	871
	-	_		_				-	_					aat Asn	_	919
	_	_	_					_	-		_		_	atc Ile	-	967
			_	_	_		_			-	_		_	ctt Leu 325		1015

	•															
								gtt Val 335								1063
_	_		-	-		_		tat Tyr					_			1111
_	_	_		_			_	act Thr	_	_	_					1159
_	_						_	atc Ile	_		_		_	_		1207
								ttc Phe								1255
								cct Pro 415								1303
								atc Ile								1351
								ctg Leu								1399
		_					-	ggc Gly	_	-						1447
~			_	_		_		tta Leu	_				_			1495
_	_				_			ttt Phe 495	_			-			_	1543
	_		_	_			_	agc Ser	_	_				-	_	1591
_							_	gac Asp		_						1639
								aag Lys								1687
								act Thr								1735
aac	agc	ttc	aat	atc	agt	gaa	cat	ctc	aac	att	aat	gag	cat	act	gga	1783

Asn	Sër	Phe	Asn 570	Ile	Ser	Glu	His	Leu 575	Asn	Ile	Asn	Glu	His 580	Thr	Gly	
					ttg Leu											1831
_	_		-	_	gga Gly	_				_	-		-	_	_	1879
		_	_	_	aat Asn 620		_	_		_	_	_				1927
					aat Asn					_		_		-	_	1975
	-		_	_	ccc Pro				_				_		_	2023
_	_				aaa Lys						_	_				2071
_			_	_	act Thr				_	_	_				_	2119
				_	ttg Leu 700		_	-					_		_	2167
_		_	_		ttc Phe								_			2215
-	_		_	Lys	tat Tyr		Arg		Ile			Tyr		_		2263
					gag Glu											2311
			_		gct Ala		_		_	_	_	_		_	_	2359
					ccc Pro 780											2407
_		_			ctt Leu	_	_					_		_	_	2455
					atg Met											2503

810 815 820

act ata ccc atg aaa aat Thr Ile Pro Met Lys Asn 825			2551
gat cat gta tat ggt att Asp His Val Tyr Gly Ile 840		_	2599
cat tga tagctgatgt tgaaa His 855	actget tgagcateag gat	actcaaa gtggaaagga	2655
tcacagattt ttggtagttt ct	gggtctac aaggactttc	caaatccagg agcaacgcca	2715
gtggcaacgt agtgactcag go	gggcacca aggcaacggc	accattggtc tctgggtagt	2775
gctttaagaa tgaacacaat ca	egttatag tecatggtee	atcactattc aaggatgact	2835
ccctcccttc ctgtctattt tt	gttttta ctttttaca	ctgagtttct atttagacac	2895
tacaacatat ggggtgtttg tt	cccattgg atgcatttct	atcaaaactc tatcaaatgt	2955
gatggctaga ttctaacata tt	gccatgtg tggagtgtgc	tgaacacaca ccagtttaca	3015
ggaaagatgc attttgtgta ca	gtaaacgg tgtatatacc	ttttgttacc acagagtttt	.3075
ttaaacaaat gagtattata gg	actttctt ctaaatgagc	taaataagtc accattgact	3135
tcttggtgct gttgaaaata at	ccattttc actaaaagtg	tgtgaaacct acagcatatt	3195
cttcacgcag agattttcat ct	attatact ttatcaaaga	ttggccatgt tccacttgga	3255
aatggcatgc aaaagccatc at	agagaaac ctgcgtaact	ccatctgaca aattcaaaag	3315
agagagagag atcttgagag ag	aaatgctg ttcgttcaaa	agtggagttg ttttaacaga	3375
tgccaattac ggtgtacagt tt	aacagagt tttctgttgc	attaggataa acattaattg	3435
gagtgcagct aacatgagta to	atcagact agtatcaagt	gttctaaaat gaaatatgag	3495
aagateetgt cacaattett ag	atctggtg tccagcatgg	atgaaacctt tgagtttggt	3555
ccctaaattt gcatgaaagc ac	aaggtaaa tattcatttg	cttcaggagt ttcatgttgg	3615
atctgtcatt atcaaaagtg at	cagcaatg aagaactggt	cggacaaaat ttaacgttga	3675
tgtaatggaa ttccagatgt ag	gcattccc cccaggtctt	ttcatgtgca gattgcagtt	3735
ctgattcatt tgaataaaaa gg	aacttgg		3764

<sup>&</sup>lt;210> 4

Met Ala Leu Val Leu Gly Ser Leu Leu Leu Gly Leu Cys Gly Asn

<sup>&</sup>lt;211> 855

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 4

1

5

Ser Phe Ser Gly Gly Gln Pro Ser Ser Thr Asp Ala Pro Lys Ala Trp 20 25 30

Asn Tyr Glu Leu Pro Ala Thr Asn Tyr Glu Thr Gln Asp Ser His Lys
35 40 45

Ala Gly Pro Ile Gly Ile Leu Phe Glu Leu Val His Ile Phe Leu Tyr 50 60

Val Val Gln Pro Arg Asp Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu 65 70 75 80

Gln Lys Ala Tyr Glu Ser Lys Ile Asp Tyr Asp Ile Val Tyr Tyr Glu 85 90 95

Ala Gly Ile Ile Leu Cys Cys Val Leu Gly Leu Leu Phe Ile Ile Leu 100 105 110

Met Pro Leu Val Gly Tyr Phe Phe Cys Met Cys Arg Cys Cys Asn Lys 115 120 125

Cys Gly Gly Glu Met His Gln Arg Gln Lys Glu Asn Gly Pro Phe Leu 130 135 140

Ile Gly Ile Phe Tyr Gly Phe Val Ala Asn His Gln Val Arg Thr Arg 165 170 175

Ile Lys Arg Ser Arg Lys Leu Ala Asp Ser Asn Phe Lys Asp Leu Arg 180 185 190

Thr Leu Leu Asn Glu Thr Pro Glu Gln Ile Lys Tyr Ile Leu Ala Gln 195 200 205

Tyr Asn Thr Thr Lys Asp Lys Ala Phe Thr Asp Leu Asn Ser Ile Asn 210 215 220

Ser Val Leu Gly Gly Gly Ile Leu Asp Arg Leu Arg Pro Asn Ile Ile 225 230 235 240

Pro Val Leu Asp Glu Ile Lys Ser Met Ala Thr Ala Ile Lys Glu Thr 245 250 255

Lys Glu Ala Leu Glu Asn Met Asn Ser Thr Leu Lys Ser Leu His Gln 260 265 270

Gln Ser Thr Gln Leu Ser Ser Ser Leu Thr Ser Val Lys Thr Ser Leu 275 280 285

Arg Ser Ser Leu Asn Asp Pro Leu Cys Leu Val His Pro Ser Ser Glu 290 295 300

Thr Cys Asn Ser Ile Arg Leu Ser Leu Ser Gln Leu Asn Ser Asn Pro 305 310 315 320

Glu Leu Arg Gln Leu Pro Pro Val Asp Ala Glu Leu Asp Asn Val Asn 325 330 335

Asn Val Leu Arg Thr Asp Leu Asp Gly Leu Val Gln Gln Gly Tyr Gln 340 345 350

Ser Leu Asn Asp Ile Pro Asp Arg Val Gln Arg Gln Thr Thr Val 355 360 365

Val Ala Gly Ile Lys Arg Val Leu Asn Ser Ile Gly Ser Asp Ile Asp 370 375 380

Asn Val Thr Gln Arg Leu Pro Ile Gln Asp Ile Leu Ser Ala Phe Ser 385 390 395 400

Val Tyr Val Asn Asn Thr Glu Ser Tyr Ile His Arg Asn Leu Pro Thr 405 410 415

Leu Glu Glu Tyr Asp Ser Tyr Trp Trp Leu Gly Gly Leu Val Ile Cys 420 . 425 430

Ser Leu Leu Thr Leu Ile Val Ile Phe Tyr Tyr Leu Gly Leu Leu Cys 435 440 445

Gly Val Cys Gly Tyr Asp Arg His Ala Thr Pro Thr Thr Arg Gly Cys 450 460

Val Ser Asn Thr Gly Gly Val Phe Leu Met Val Gly Val Gly Leu Ser 465 470 475 480

Phe Leu Phe Cys Trp Ile Leu Met Ile Ile Val Val Leu Thr Phe Val
485 490 495

K.



Phe Gly Ala Asn Val Glu Lys Leu Ile Cys Glu Pro Tyr Thr Ser Lys 500 505 510

Glu Leu Phe Arg Val Leu Asp Thr Pro Tyr Leu Leu Asn Glu Asp Trp 515 520 525

Glu Tyr Tyr Leu Ser Gly Lys Leu Phe Asn Lys Ser Lys Met Lys Leu 530 535 540

Thr Phe Glu Gln Val Tyr Ser Asp Cys Lys Lys Asn Arg Gly Thr Tyr 545 550 555 560

Gly Thr Leu His Leu Gln Asn Ser Phe Asn Ile Ser Glu His Leu Asn 565 570 575

Ile Asn Glu His Thr Gly Ser Ile Ser Ser Glu Leu Glu Ser Leu Lys
580 585 590

Val Asn Leu Asn Ile Phe Leu Leu Gly Ala Ala Gly Arg Lys Asn Leu 595 600 605

Gln Asp Phe Ala Ala Cys Gly Ile Asp Arg Met Asn Tyr Asp Ser Tyr 610 615 620

Leu Ala Gln Thr Gly Lys Ser Pro Ala Gly Val Asn Leu Leu Ser Phe 625 630 635 640

Ala Tyr Asp Leu Glu Ala Lys Ala Asn Ser Leu Pro Pro Gly Asn Leu 645 650 655

Arg Asn Ser Leu Lys Arg Asp Ala Gln Thr Ile Lys Thr Ile His Gln 660 665 670

Gln Arg Val Leu Pro Ile Glu Gln Ser Leu Ser Thr Leu Tyr Gln Ser 675 680 685

Val Lys Ile Leu Gln Arg Thr Gly Asn Gly Leu Leu Glu Arg Val Thr 690 695 700

Arg Ile Leu Ala Ser Leu Asp Phe Ala Gln Asn Phe Ile Thr Asn Asn 705 710 715 720

Thr Ser Ser Val Ile Ile Glu Glu Thr Lys Lys Tyr Gly Arg Thr Ile
725 730 735

E1 2



Ile Gly Tyr Phe Glu His Tyr Leu Gln Trp fle Glu Phe Ser Ile Ser
740 745 750

Glu Lys Val Ala Ser Cys Lys Pro Val Ala Thr Ala Leu Asp Thr Ala
755 760 765

Val Asp Val Phe Leu Cys Ser Tyr Ile Ile Asp Pro Leu Asn Leu Phe 770 780

Trp Phe Gly Ile Gly Lys Ala Thr Val Phe Leu Leu Pro Ala Leu Ile
785 790 795 800

Phe Ala Val Lys Leu Ala Lys Tyr Tyr Arg Arg Met Asp Ser Glu Asp 805 810 815

Val Tyr Asp Asp Val Glu Thr Ile Pro Met Lys Asn Met Glu Asn Gly
820 825 830

Asn Asn Gly Tyr His Lys Asp His Val Tyr Gly Ile His Asn Pro Val 835 840 845

Met Thr Ser Pro Ser/Gln His 850 855

<210> 5

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Extradellular cytokine receptor motif found in many species.

<220>

<221> UNSURE

<222> (3)/..(3)

<223> "Xaa" at position 3 can be any amino acid.

<400>

Trp Ser Xaa Trp Ser